Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection
Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

DEVAL L. PATRICK
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Commissioner

AIR QUALITY OPERATING PERMIT

Issued by the Massachusetts Department of Environmental Protection ("Department" or "MassDEP") pursuant to its authority under M.G.L. c. 111, §142B and §142D, 310 CMR 7.00 et seq., and in accordance with the provisions of 310 CMR 7.00: Appendix C.

ISSUED TO ["the Permittee"]:
Oldcastle Stone Products
P.O. Box 710, 110 Marble Street
Lee, MA 01238

INFORMATION RELIED UPON:
Application No. 1-O-12-019
Transmittal No. X252267

FACILITY LOCATION:
Oldcastle Stone Products
110 Marble Street
Lee, MA 01238

FACILITY IDENTIFYING NUMBERS:
AQ ID: 1170012
FMF FAC NO.: 374540
FMF RO NO.: 374541

NATURE OF BUSINESS:
Production of lime, mixing and bagging of lime, sand and stone products

Standard Industrial Classification (SIC): 3274, 1422
North American Industrial Classification System (NAICS): 327410, 312312

RESPONSIBLE OFFICIAL:
Name: Jeff Jager
Title: Plant Manager

FACILITY CONTACT PERSON:
Name: Donald O'Bryan
Title: Environmental Health and Safety Manager
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This Operating Permit shall expire on 12 /29/19.
For the Department of Environmental Protection

This final document copy is being provided to you electronically by the Department of Environmental Protection. A signed copy of this document is on file at the DEP office listed on the letterhead.

Michael Gorski
Regional Director
Department of Environmental Protection
Western Regional Office

12/29/14
Date

TABLE OF CONTENTS

SPECIAL CONDITIONS FOR OPERATING PERMIT

1. PERMITTED ACTIVITIES

In accordance with the provisions of 310 CMR 7.00:Appendix C and applicable rules and regulations, the Permittee (Oldcastle Stone Products, hereinafter "Oldcastle") is authorized to operate air emission units as shown in Table 1 and exempt, and insignificant activities as described in 310 CMR 7.00:Appendix C(5)(h) and (i). The units described in Table 1 are subject to the terms and conditions shown in Sections 4, 5, and 6 and to other terms and conditions as specified in this Permit. Emissions from the exempt activities shall be included in the total facility emissions for the emission-based portion of the fee calculation described in 310 CMR 4.00 and this Permit.

A. DESCRIPTION OF FACILITY AND OPERATIONS

Oldcastle is located at 110 Marble Street in Lee, Massachusetts. Oldcastle consists of a large lime quarry and the associated equipment to manufacture agricultural grade lime, limestone products, and aggregate products primarily for retail sale. There are fourteen emission units at this facility. The main emission units include:

The Kennedy Rotary Kiln (EU #1) is rated at 40 million British thermal units per hour ("MMBtu/hr") heat input. The kiln was converted to burn coal as its primary fuel and No. 6 residual fuel oil as a secondary fuel source on October 28, 1981. The kiln has the potential to emit greater than 100 tons per year of oxides of nitrogen ("NO_X"). The rotary kiln is subject to 40 CFR Part 60 Subpart HH "Standards of Performance for Lime Manufacturing Plants".

The McDermott rotary limestone drier (EU #2) was permitted by MassDEP in January of 1972. The rotary dryer, rated at 40 MMBtu/hr heat input, burns natural gas as its primary fuel. The rotary dryer is equipped with three cyclones and a fabric filter for particulate control. The rotary limestone dryer is subject to 40 CFR Part 60 Subpart OOO "Standards of Performance for Non-Metallic Mineral Processing Plants.

A Lippman Milwaukee Portable Rock Crusher (EU #5), which is capable of processing 400 tons per hour of limestone was permitted on April 23, 2007. The portable crusher is subject to 40 CFR Part 60 Subpart OOO "Standards of Performance for Non-Metallic Mineral Processing Plants". The portable crusher replaced an older 198 ton per hour Thunderbird Kobelco Portable Jaw Crusher which was approved by MassDEP in December 1998. The Thunderbird Kobelco crusher has been removed from the facility.

Additional specialty plants located within the facility are the limestone pelletizing plant (EU #11) which produces dolomitic limestone pellets and the newly installed Raymond roller mill plant (EU #14). The pelletizing plant, which processes 20 tons per hour of dry solids into pellets, consists of a gas-fired fluidized bed pelletizer dryer, storage bins and feed silos, conveyors and a bagging operation. It was conditionally approved by MassDEP on May 10, 2005. The new Raymond roller mill plant, which received a plan approval on May 9, 2013, is a non-metallic mineral processing operation with a maximum throughput of 195,000 tons of limestone per year. The plant consists of a 50 ton dump hopper, Vibrating Grizzly Feeder, feed belt conveyor, raw material storage silo, 9.5 MMBtu/hr flash dryer, roller mill pneumatic conveying line and six existing storage silos. The components of both plants are subject to NSPS 40 CFR Part 60 Subpart A and Subpart OOO "Standards of Performance for Non-Metallic Mineral Processing Plants" regulations.

In addition to the quarrying and production operations there are a number of supporting operations at the Oldcastle facility which require ancillary equipment to move, screen, grind, bag, package, store and loadout various limestone products which are subject to 40 CFR Part 60 Subpart OOO "Standards of Performance for Non-Metallic Mineral Processing Plants".

The facility is not subject to federal Standards of Performance for Calciners and Dryers in Mineral Industries, 40 CFR Part 60 Subpart UUU, since limestone is not a mineral listed in 40 CFR 60.731; therefore, the facility is not considered a mineral process plant under 40 CFR Part 60 Subpart UUU.

The 500 gallon above ground gasoline storage tank (EU #9) was installed at the facility before November 9, 2006 and is located at an area source of HAP. The storage tank has a monthly throughput less than 10,000 gallons. Therefore, the gasoline storage tank is subject to the federal National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities, 40 CFR Part 63 Subpart CCCCCC. The standards became effective on January 10, 2011 for existing affected sources. The facility decommissioned its Stage II Vapor Recovery System on September 24, 2013 and is now subject to Stage I regulations. The applicable requirements have been included in this operating permit.

The facility has a cold cleaning degreaser (EU #13) which is exempt from the plan approval requirements of 310 CMR 7.02 in accordance with 310 CMR 7.03(8). However, the cold cleaning degreaser is subject to the applicable requirements of 310 CMR 7.18(1) and 7.18(8)(a). The applicable requirements have been included in this operating permit.

Emission Unit #14, the Raymond Roller Mill, has been incorporated into the operating permit. This emission unit was approved in a Limited Plan Approval #W-13-009, issued on May 9, 2013 (and amended on December 13, 2013).

The facility is considered to be a major source since it has the potential to emit greater than 100 tons per year of particulate matter ("PM") including PM_{10} (PM with an aerodynamic diameter equal to or less than 10 microns) and fugitive particulate emissions, and 50 tons per year of nitrogen oxides ("NO_X"). Therefore the facility is subject to the Operating Permit and Compliance Program pursuant to 310 CMR 7.00: Appendix C(2). It is not a major source for Hazardous Air Pollutant (HAPS).

Compliance Assurance Monitoring (CAM) does not apply since the Kennedy Rotary Kiln (EU #1) is the only individual unit that has the potential to emit emissions over one-hundred percent of the major source threshold amounts but does not have control devices for the specific pollutants (NO_X and SO_2). None of the remaining emission units have the potential to emit in excess of the major source threshold**.**

The owner/operator of Oldcastle is subject to and shall comply with the Massachusetts Clean Air Interstate Rule (CAIR), 310 CMR 7.32 and has submitted a CAIR emission control application pursuant to 310 CMR 7.32(3). 310 CMR 7.28 has been superseded by 310 CMR 7.32.

Massachusetts promulgated the 310 CMR 7.71: Reporting of Greenhouse Gas Emissions regulations on June 26, 2009. Pursuant to 310 CMR 7.71(3)(a)1., Oldcastle is subject to the applicable requirements of this regulation which have been included in this operating permit.

Tables 3, 4, 5, 6, and 8 of this Operating Permit contain the air quality requirements and regulations to which Oldcastle is subject.

2. EMISSION UNIT IDENTIFICATION

The following emission units (Table 1) are subject to and regulated by this Operating Permit:

Table 1

Emission Unit (EU#)	Description of Emission Unit	EU Design Capacity	Pollution Control Device (PCD)
1	Kennedy rotary kiln #1	40 MMBtu/hr	cyclone and fabric filter
2	McDermott limestone rotary dryer	40 MMBtu/hr; 100 ton/hr	cyclones and fabric filter
4	lime hydrator, bagging and loadout	6 tons/hr lime (input)	venturi scrubber (hydrator); fabric filter (bagging and bulk loadout)
5	primary crusher (portable – located in quarry)	400 ton/hr limestone	water suppression system and containment skirt
6	bagging operations (North warehouse)	30 ton/hr per unit*	fabric filter
7	limestone screening, transfer, loadout, and bagging	15 – 80 ton/hr	fabric filter
8	limestone screens, grinding mills, elevators, and bagging machines	5 – 150 ton/hr	fabric filter
9	gasoline storage tank (above ground)	500 gallons	Stage I Vapor Recovery System
10	stockpiles and limestone hauling	N/A	none
11	Limestone pelletizing plant – feed silos, pelletizer, dryer, conveyors, screen crusher	25 MMBtu/hr; 20 ton/hr limestone	fabric filters
12	limestone pellet packaging and loading	20 ton/hr limestone	fabric filter
13	Cold Cleaning Degreaser	N/A	N/A
14	Raymond roller mill, vibrating feeder, belt conveyor, flash dryer, pneumatic conveying system, and storage silos	37 ton/hr; 9.5 MMBtu/hr	Fabric filter and pulse-jet vent filter

Table 1 Footnote: * Each bagging machine has a capacity of 30 ton/hr.

3. IDENTIFICATION OF EXEMPT ACTIVITIES

The following are considered exempt activities in accordance with the criteria contained in 310 CMR 7.00: Appendix C(5)(h):

Table 2

Description of Current Exempt Activities	Reason
The list of current exempt activities is contained in the Operating Permit application and shall be updated by the Permittee to reflect changes at the facility over the Permit term. An up-to-date copy of exempt activities list shall be kept on-site at the facility and a copy shall be submitted to the MassDEP's Regional Office. Emissions from these activities shall be reported on the annual emissions statement pursuant to 310 CMR 7.12.	310 CMR 7.00:Appendix C(5)(h)

4. APPLICABLE REQUIREMENTS

A. OPERATIONAL AND/OR PRODUCTION EMISSION LIMITS AND RESTRICTIONS

The Permittee is subject to the limits/restrictions as contained in Table 3 below:

Table 3

EU #	Fuel/Raw Material	Operational and/or Production Limits	Pollutant	Emissions Limits/Standards	Applicable Regulation And/or Approval No.
EU #1	coal (primary) No. 6 fuel oil (secondary) Natural Gas (start-up only)	fuel input ≤ 40 MMBtu/hr (Approval #1-B-99-035) kiln temp. ≤ 2250°F based on 7-day rolling average (Approval #1-E-94-110)	PM[(1)]	≤ 11.0 lb/hr; ≥ 99.9% control efficiency	Approval #B-81-C-001 (10/28/1981)
			Smoke	≤ No. 1 of the Chart, except No. 1 to No. 2 for no more than 6 minutes aggregate during any one hour; at no time to exceed No. 2 of the Chart	Regulation 310 CMR 7.06(1)(a)
			Opacity	≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	Regulation 310 CMR 7.06(1)(b) Approval #1-B-99-035 (1/06/00)
			NO_X[(4)]	≤ 7.4 lb NO_X/ton lime produced ≤ 30.8 lb/hr ≤ 135.0 tons per rolling consecutive twelve month period [(3)] See Special Terms and Conditions; Section 5 Table 8	Approval #1-E-94-110 (9/12/96; amended 4/17/98) and Regulation 310 CMR 7.19(12) Regulation 310 CMR 7.32
			CO[(4)]	≤ 250 ppmvd @ 3% O_2 ≤ 9.1 lb/hr ≤ 39.9 tons per rolling consecutive twelve month period [(3)]	Approval #1-E-94-110 (9/12/96; amended 4/17/98) and Regulation 310 CMR 7.19(12)
			S in fuel	Coal: ≤ 2.1 pounds per MMBtu heat release potential (≈2.5% assuming 12,000 Btu/lb) No. 6 fuel oil: ≤ 1.21 pounds per MMBtu heat Release potential (≈2.2% by weight)	Approval #1-P-96-002 (4/12/96; amended 4/17/98) Regulation 310 CMR 7.05(1)(a)
			Ash in fuel	coal: ≤ 16% by dry weight	Approval #1-P-10-026 (7/02/10)
EU #2	natural gas (primary) No. 2 fuel oil (secondary)	None	PM[(1)]	≤ 10.2 lb/hr; ≥ 99% control efficiency	Approval dated 8/22/72
			Smoke	≤ No. 1 of the Chart, except No. 1 to No. 2 for no more than 6 minutes aggregate during any one hour; at no time to exceed No. 2 of the Chart	Regulation 310 CMR 7.06(1)(a)

Table 3

EU #	Fuel/Raw Material	Operational and/or Production Limits	Pollutant	Emissions Limits/Standards	Applicable Regulation And/or Approval No.
EU #2		None	Opacity	≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	Regulation 310 CMR 7.06(1)(b) Approval #1-B-99-035 (1/06/00)
			sulfur in fuel oil	≤ 0.17 lb/MMBtu (≈ 0.3% by weight) [7] prior to July 1, 2014 ≤ 0.05% S by weight July 1, 2014 through June 30, 2018 ≤ 0.0015% S by weight on and after July 1, 2018	Regulation 310 CMR 7.05(1)(a)1[8]
EU #4	lime	None	Opacity	≤ 20%, except 20 to 40% for ≤ 2 minutes during any one hour	Regulation 310 CMR 7.06(1)(b)
EU #5	limestone	Operate wet particulate suppression system between April 1 and October 31 of each year – when necessary to control dust emissions. Shall limit operations to no more than 2,500 hours of operation per rolling 12 month period.	PM[1]	≤ 0.05 grams/DSCM (0.022 grains/DSCF) for stack emissions [5] ≤ 4.75 tons per rolling consecutive-twelve month period[3]	40 CFR Part 60 Subpart OOO Approval # 1-P-07-004 (4/23/07)
			Opacity	≤ 10% for fugitive emissions from any transfer point on belt conveyors or from any other affected facility at all times, including startups and shutdowns ≤ 10% from the crusher ≤ 15% for fugitive emissions from the crusher at all times, including startups and shutdowns	40 CFR Part 60 Subparts A and OOO 60.672(b) and Approval #1-P-07-004 (4/23/07) Approval #1-P-07-004 (4/23/07) 40 CFR Part 60 Subparts A and OOO 60.672(c)
EU #6	screened aggregates	None	PM[1]	≤ 0.05 grams/DSCM (0.022 grains/DSCF) for stack emissions [5]	40 CFR Part 60 Subpart OOO
			Opacity	≤ 7% for stack emissions [5]	40 CFR Part 60 Subparts A and OOO

Table 3

EU #	Fuel/Raw Material	Operational and/or Production Limits	Pollutant	Emissions Limits/Standards	Applicable Regulation And/or Approval No.
EU #7	limestone	None	PM[(1)]	≤ 0.05 grams/DSCM (0.022 grains/DSCF) for stack emissions [(5)] ≤ 4,500 lb/yr; ≥ 99.9% control efficiency	40 CFR 60 Subpart OOO Approval #1-P-98-021 (6/23/98), and Approval #1-P-00-033 (9/15/00)
			Opacity	≤ 7% for stack emissions [(5)] ≤ 10% for fugitive emissions from conveyor belts, elevators, screening equipment, bagging equipment, separator, and storage bins at all times, including startups and shutdowns.	40 CFR Part 60 Subparts A and OOO, Approval 1-P-98-021 (6/23/98), and Approval #1-P-00-033 (9/15/00)
EU #8	limestone and quicklime	None	PM[(1)]	≤ 4.0 lb/hr; ≥ 99% control efficiency	Approval #BV-75-IF-001 (3/06/1975)
			Opacity	≤ 20%, except 20 to 40% for ≤ 2 minutes during any one hour	Regulation 310 CMR 7.06(1)(b)
EU #9	gasoline	Maintain and properly operate Stage I vapor recovery system; Restrict gasoline thruput to < 100,00 gal per calendar month	VOC	Recover 95% by weight of motor vehicle fuel vapors displaced during the dispensing of motor vehicle fuel	Regulations: 310 CMR 7.03(13) 310 CMR 7.24(3) 310 CMR 7.24(6) 40 CFR Part 63 Subpart CCCCCC
EU #10	limestone	None	Opacity	≤ 20%, except 20 to 40% for ≤ 2 minutes during any one hour	Regulation 310 CMR 7.06(1)(b)
EU #11	natural gas crushed limestone, gypsum or other crushed stone	None	PM[(1)] excluding dryer	≤ 0.05 grams/DSCM (0.022 grains/DSCF) for stack emissions [(5)] 99.9% control efficiency	40 CFR 60 Subpart OOO Approval #1-P-05-004 (5/10/05)
			PM[(1)]	≤ 0.011 grams/ACM (0.005 grains/ACF) for dryer stack emissions [(5)] ≤ 10.6 tons per rolling consecutive twelve month period[(3)]	Approval #1-P-05-004 (5/10/05)

Table 3

EU #	Fuel/Raw Material	Operational and/or Production Limits	Pollutant	Emissions Limits/Standards	Applicable Regulation And/or Approval No.
EU #11 cont'	natural gas crushed limestone, gypsum or other crushed stone	None	NO_X [4] (dryer)	≤ 80 ppmvd @ 3% O_2 (0.1 lb/MMBtu) ≤ 2.5 lb/hr ≤ 11.0 tons per rolling consecutive twelve month period[3]	Approval #1-P-05-004 (5/10/05)
			CO [4] (dryer)	≤ 200 ppmvd @ 3% O_2 (0.15 lb/MMBtu) ≤ 3.8 lb/hr ≤ 16.6 tons per rolling consecutive twelve month period[3]	Approval #1-P-05-004 (5/10/05)
			Smoke	≤ No. 1 of the Chart, except No. 1 to No. 2 for no more than 6 minutes aggregate during any one hour; at no time to exceed No. 2 of the Chart	Regulation 310 CMR 7.06(1)(a)
			Opacity	≤ 7% for stack emissions [5] ≤ 10% for fugitive emissions from conveyor belts, elevators, screening equipment, bagging equipment, separator, and storage bins at all times, including startups and shutdowns.	40 CFR 60 Subpart OOO
EU #12	limestone pellets	None	PM[1]	≤ 0.05 grams/DSCM (0.022 grains/DSCF) for stack emissions [5]	40 CFR 60 Subpart OOO Approval #1-P-05-004 (5/10/05)
			Opacity	≤ 7% for stack emissions [5] ≤ 10% for fugitive emissions from conveyor belts, elevators, screening equipment, bagging equipment, separator, and storage bins at all times, including startups and shutdowns	40 CFR 60 Subparts A and OOO Approval #1-P-05-004 (5/10/05)
EU #13	solvent	solvent vapor pressure ≤ 1.0mm Hg @ 20 °C	VOC	usage not to exceed 100 gal/month per degreaser	Regulations: 310 CMR 7.03(8) 310 CMR 7.18(1) 310 CMR 7.18(8)

Table 3

EU #	Fuel/Raw Material	Operational and/or Production Limits	Pollutant	Emissions Limits/Standards	Applicable Regulation and/or Approval No.
EU #14	natural gas crushed limestone	195,000 tons of limestone in any 12 consecutive month period 6240 hours in any 12 consecutive month period	$PM^{(1)}/PM_{10}/PM_{2.5}^{(2)}$	≤ 0.014 grains/DSCF Raymond roller mill emissions ≤ 0.003 grains/DSCF Pneumatic conveying system ≤ 4.64 tons per rolling consecutive twelve month period [3]	Regulation 310 CMR 7.02(8)(a)2 40 CFR 60.672(a) Approval #W-13-009 (5/09/13)
			$PM_{10}/PM_{2.5}^{(2)}$	≤ 4.47 tons per rolling consecutive twelve month period [3]	Approval #W-13-009 (5/09/13)
			Opacity	≤ 7% for fugitive particulate emissions from the 50 ton dump hopper, vibrating grizzly feeder, conveyor belts and transfer points and Raymond roller mill at all times, including startups and shutdowns	Regulation 310 CMR 7.02(8)(a)2 40 CFR 60.672(b) 40 CFR 60.672(e)(1)
			Smoke	≤ No. 1 of the Chart, except No. 1 to No. 2 for no more than 6 minutes aggregate during any one hour; at no time to exceed No. 2 of the Chart	Regulation 310 CMR 7.06(1)(a)
Facility-wide			Greenhouse gas[6]	N/A	Regulation 310 CMR 7.71 (state only)

Table 3 Key:

NO_x = Nitrogen Oxides
CO = Carbon Monoxide
VOC = Volatile Organic Compounds
PM = Total Particulate Matter
PM_{10} = Particulate Matter less than or equal to 10 microns in diameter
$PM_{2.5}$ = Particulate Matter less than or equal to 2.5 microns in diameter
Opacity = exclusive of uncombined water vapor
lbs/MMBtu = pounds per Million British thermal units
lbs/hr = pounds per hour
ppmvd @ 3% O2 = parts per million by volume, corrected to 3 percent oxygen
grams/DSCM = grams per dry standard cubic meter
grams/ACM = grams per actual cubic meter
grains/DSCF = grains per dry standard cubic foot
grams/DSCM = grams per dry standard cubic meter
grams/ACM = grams per actual cubic meter
gal = gallons
≤ = less than or equal to
≥ = greater than or equal to
≈ = approximately
% = percent
°F = degrees Fahrenheit
S in Fuel = sulfur content of fuel
ton/yr = Tons per year

Table 3 Foot Notes:

(1) Particulate matter as measured according to the applicable procedures specified in 40 CFR 60 Appendix A, Method 5 and 17, based on a minimum sample volume of 1.70 dscm (60 dscf).

(2) $PM_{10}/PM_{2.5}$ as measured according to the applicable procedures in 40 CFR 60 Appendix A, Methods 201/201A and Method 202, includes the combination of filterable $PM_{10}/PM_{2.5}$ and condensable PM) means PM with an aerodynamic diameter equal to or less than 2.5 micrometers.

(3) To calculate the amount of a consecutive 12 month rolling period take the current calendar month amount and add it to the previous 11 calendar months total amount.

(4) Based on a 3-hour average.

(5) Except during periods of startup, shutdown, and malfunction.

(6) Greenhouse Gas means any chemical or physical substance that is emitted into the air and that the Department may reasonably anticipate will cause or contribute to climate change including, but not limited to, CO_2, CH_4, N_2O, SF_6, hydro fluorocarbons (HFCs), and per-fluorocarbons (PFCs).

(7) % Sulfur by weight limit is based on 19,633 Btu per pound distillate oil (HHV)

(8) As provided in 310 CMR 7.05(1)(b)2. any person owning, leasing or controlling the operation of a fossil fuel utilization facility may burn any existing stock of fossil fuel oil at the facility, but shall not accept delivery of a fuel with a sulfur content in excess of the limits in 310 CMR 7.05(1)(a)1.: Table 1 on or after the applicable date(s) in 310 CMR 7.05(1)(a)1: Table 1, except as provided in 310 CMR 7.05(1)(b)3.

B. COMPLIANCE DEMONSTRATION

The Permittee is subject to the monitoring/testing, record keeping, and reporting requirements as contained in Tables 4, 5, and 6 below and 310 CMR 7.00 Appendix C (9) and (10) and applicable requirements contained in Table 3:

Table 4a

EU#	Monitoring And Testing Requirements
EU #1	1) In accordance with Approval No. 1-E-94-110, Oldcastle shall operate and maintain a continuous temperature monitor, recorder and data logger for EU #1.
	2) In accordance with Approval No. 1-E-94-110 and 310 CMR 7.00 Appendix C(9)(b), Oldcastle shall monitor consumption of coal and No. 6 fuel oil and maintain a fuel usage log consisting of purchase records for fuel usage.
	3) In accordance with Approval No. 1-P-10-026, Oldcastle shall obtain certification from the supplier for each shipment of coal that includes the following information: a) The name of the coal supplier; and b) Percent ash content (by weight, dry basis).
	4) In accordance with Approval No. 1-E-94-110, Oldcastle shall, upon request from MassDEP, perform stack testing on EU #1 to demonstrate compliance with the emission limits listed in Table 3. Stack testing shall be conducted in accordance with the appropriate EPA test methods, as contained in 40 CFR 60, Appendix A.
	5) In accordance with 310 CMR 7.32, monitor and test as required by the Massachusetts Clean Air Interstate Rule (CAIR).
EU # 1 and EU# 2	6) In accordance with Approval No. 1-B-99-035, Oldcastle shall monitor the pressure drops across each baghouse at least once per day of operation using differential pressure gauges. The normal operating range for each baghouse shall be within the range specified by the manufacturer. If the pressure drop across either baghouse is above or below its normal operating range, Oldcastle shall perform the testing and reporting described below: a) If the pressure drop across a baghouse is higher than the normal operating range, Oldcastle shall check the baghouse during the next scheduled maintenance period and perform any needed repairs. b) If the pressure drop across a baghouse is below its normal operating range, Oldcastle shall perform a visual inspection of the baghouse exhaust using the procedures set forth in 40 CFR Part 60, Appendix A, Method 22 (hereinafter "Method 22 test"). The length of the observation time of the Method 22 test shall be at least 6 minutes. However, if Oldcastle proceeds with an immediate shutdown of the affected emission unit, no visible emission test will be required. c) If visible emissions are observed during a Method 22 test, within 24 hours Oldcastle shall conduct a visual inspection of the baghouse exhaust in accordance with the procedures set forth in 40 CFR 60, Appendix A, Method 9 (hereinafter "Method 9 test"). If the visible emissions are in compliance with the limits set forth in Table 3 of this Operating Permit, Oldcastle may continue to operate the affected emission unit until the next scheduled maintenance period. However, Oldcastle must repeat the Method 9 test at least once each day until the emission unit is shut down or the baghouse is repaired such that the pressure drop is within the normal operating range. d) If the visible emissions observed during any Method 9 test exceed the limits set forth in Table 3 of this Operating Permit, Oldcastle shall shut down the affected emission unit as quickly as possible without risking worker safety or damage to plant equipment. Oldcastle may restart the affected emission unit upon completion of any necessary repairs to the baghouse.

Table 4b

EU#	Monitoring And Testing Requirements
EU #1 and EU #2 (cont'd)	7) In accordance with Approval No. 1-B-99-035, Oldcastle shall perform a "black light and fluorescent powder" test on each baghouse at least two times each calendar year at approximately six-month intervals (but not to exceed eight months). As an alternate to the "black light and fluorescent powder" test, Oldcastle may perform a complete bag change on the baghouse. The "black light and fluorescent powder" test, or the alternative bag replacement is not required to be performed if the process equipment discharging to the baghouse does not operate in the six-month period.
	8) In accordance with Approval No. 1-B-99-035, Oldcastle shall perform a visible emissions test on the baghouse exhaust stacks at least once per calendar year. The visible emissions test shall be performed in accordance with 40 CFR Part 60, Appendix A, Method 9 by a person certified to perform visible emissions testing.
	9) In accordance with 310 CMR 7.04(4)(a), Oldcastle shall inspect and maintain EU #1 and EU #2 in accordance with the manufacturer's recommendations and test for efficient operation at least once each calendar year. To demonstrate efficient operation, Oldcastle will maintain a rolling twelve month log of fuel use per ton of finished product.
	10) In accordance with 310 CMR 7.00 Appendix C(9)(b), Oldcastle shall monitor sulfur and ash content of each new shipment of fuel received. Compliance with the percent sulfur in fuel and percent ash in fuel requirements can be demonstrated by maintaining a shipping receipt from the fuel supplier (shipping certification) or through testing (testing certification). The shipping receipt certification or testing certification of sulfur and ash content of fuel shall document that the testing has been conducted in accordance with the applicable ASTM test methods: (for sulfur D129-64, D1072-56, D12266-67, D1552-83, D2622-87, D4294-90; and for ash: D482-95) or any other method approved by MassDEP and EPA.
EU #5	11) In accordance with Approval No. 1-P-07-004, operation of the wet particulate suppression system is optional during the period between November 1 and March 31 (winter months). Between April 1 and October 31, the wet particulate suppression system will be operated as necessary to control dust emissions (stone is typically wet and non-dusting). However, on each day that Oldcastle wishes to operate the rock crusher without the wet particulate suppression system, it must perform the following: a) At least once per day of operation, Oldcastle shall perform a visible emission check in conformance with 40 CFR Part 60, Appendix A, Method 22 as follows: An observer shall stand at a distance of at least 30 feet, but no more than 100 feet, from the crusher. To the extent possible, the observer shall view the potential visible plume against a contrasting background while standing with the sun to his or her back. Timing the emissions with a stopwatch will not be necessary. b) If any visible emissions are observed during a visible emission check performed pursuant to Condition 11a., Oldcastle shall initiate within one hour a follow-up visible emission test using the procedures contained in 40 CFR Part 60, Appendix A, Method 9 ("Method 9 Test"). The minimum observation time for this test shall be six minutes. c) If the opacity of the visible emissions from rock crusher observed during the Method 9 test exceeds 10%, Oldcastle shall immediately activate the wet particulate suppression system or shut down the rock crusher.
EU #4, EU #6, EU #7, and EU #8	12) In accordance with 310 CMR 7.00 Appendix C(9)(b), Oldcastle shall perform the following testing on each baghouse at least once per year: a) A "black light and fluorescent powder" test; and b) A visible emissions test, which shall be performed in accordance with 40 CFR Part 60, Appendix A, Method 9 by a person certified to perform visible emissions testing.

Table 4c

EU#	Monitoring And Testing Requirements
EU #9	13) In accordance with 310 CMR 7.24(3)(d)1., Oldcastle shall conduct the following compliance tests, as applicable: a. for all Stage I systems: i. Pressure Decay 2 inch Test, per CARB test procedure TP-201.3; ii. Vapor Tie Test, per San Diego Air Pollution Control District test procedure TP-96-1, section 5.1.9; iii. Pressure/VacuumVent Valve Test, per CARB test procedure TP-201.1E; iv. Static Torque Rotatable Adaptor Test per CARB Test Procedure-201.1B; and; b. for Stage I Enhanced Vapor Recovery Systems only, either Leak Rate of Drop Tube/Drain Valve Assembly Test per CARB Test Procedure-201.1 C or Leak Rate of Drop Tube/ Overfill Prevention Devices per CARB Test Procedure-201.1D.
	14) In accordance with 310 CMR 7.24(3)(c)(1)d., Oldcastle shall Install, operate, repair, and maintain the Stage I System in accordance with the following requirements, as applicable to the Stage I System: i. for a Stage I Non-Enhanced Vapor Recovery System, all terms and conditions of the applicable Executive Order in accordance with 310 CMR 7.24(3)(b)2. Table 2.; ii. for a CARB certified Stage I Enhanced Vapor Recovery System, all terms and conditions of the applicable Executive Order in accordance with 310 CMR 7.24(3)(b): Table 1.; or iii. for a third-party certified system, all terms and conditions of the third-party certification in accordance with 310 CMR 7.24(3)(c)2.
	15) In accordance with 310 CMR 7.24(3)(c)(1)e., Oldcastle shall visually inspect the Stage I System weekly and within 24 hours of a motor vehicle fuel drop to determine that the system and its components are unbroken, correctly installed and functioning. Each visual inspection shall include, but not be limited to, inspection of: coaxial adaptors; dry breaks; fill caps and gaskets; vapor recovery caps and gaskets; spill containment boxes; and drain valves and pressure vent valves. i. Visual inspections shall be performed only by a person who is trained to operate and maintain the Stage I system pursuant to the applicable requirements of 7.24 (3)(c)1.d.; and ii. A current record of all persons trained shall be maintained on site and include the date training was last received and the trainee's printed name and signature acknowledging receipt of the training.

Table 4d	
EU#	**Monitoring And Testing Requirements**
EU # 11 and EU #12	16) In accordance with Approval No. 1-P-05-004, Oldcastle shall monitor the pressure drops across each baghouse at least once per day of operation using a differential pressure gauge. The normal operating range for each baghouse shall be established within 60 days after achieving the maximum production rate at which the pelletizing plant will be operated, but not later than 180 days after initial startup, and submitted to MassDEP for review and written approval. If the pressure drop across the baghouse is outside the normal operating range, Oldcastle shall perform the testing and reporting described below: a) If the pressure drop across the baghouse is higher than the normal operating range, Oldcastle shall check the baghouse during the next scheduled maintenance period and perform any needed repairs. b) If the pressure drop across the baghouse is below its normal operating range, Oldcastle shall perform a visual inspection of the baghouse exhaust in accordance with the procedures set forth in 40 CFR Part 60, Appendix A, Method 22 (hereinafter "Method 22 test"). The length of the observation time of the Method 22 test shall be at least 6 minutes. However, if Oldcastle proceeds with an immediate shutdown of the dryer, no visible emissions test will be required. c) If visible emissions are observed during a Method 22 test, within 24 hours Oldcastle shall conduct a visual inspection of the baghouse exhaust in accordance with the procedures set forth in 40 CFR Part 60, Appendix A, Method 9 (hereinafter "Method 9 test"). If the visible emissions are in compliance with the opacity limits of this Approval, Oldcastle may continue to operate the affected emission unit until the next scheduled maintenance period. However, Oldcastle must repeat the Method 9 test at least once each day until the baghouse is shut down or the baghouse is repaired such that the pressure drop is within the normal operating range. d) If the visible emissions observed during any Method 9 test exceed the opacity limits set forth in this Approval, Oldcastle shall shut down the dryer as quickly as possible without risking worker safety or damage to plant equipment. Oldcastle may restart the affected emission unit upon completion of any necessary repairs to the dryer baghouse.
	17) In accordance with Approval No. 1-P-05-004, Oldcastle shall perform weekly Method 22 emissions tests for each baghouse.
	18) In accordance with Approval No. 1-P-05-004, Oldcastle shall perform an EPA Method 9 test on each baghouse at least once per calendar year. This visible emissions test shall be performed by a person certified to perform visible emissions testing.
	19) In accordance with Approval No. 1-P-05-004, Oldcastle shall perform a "black light and fluorescent powder" test on the dryer baghouse at least two times each calendar year at approximately six-month intervals (but not to exceed eight months). As an alternate to the "black light and fluorescent powder" test, Oldcastle may perform a complete bag change on the baghouse. The "black light and fluorescent powder" test or the alternative bag replacement is not required to be performed if the process equipment discharging to the baghouse does not operate in the six-month period.

Table 4e	
EU#	**Monitoring And Testing Requirements**
EU # 11 and EU #12 (cont'd)	20) In accordance with 40 CFR 60.675 (Subpart OOO), and if Oldcastle is required to demonstrate compliance with particulate matter standards in §60.672(a) as follows: a) Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent condensation on the filter. b) Method 9 and the procedures in §60.11 shall be used to determine opacity. c) In determining compliance with the particulate matter standards in §60.672(b), Oldcastle shall use Method 9 and the procedures in §60.11, with the following additions: (i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet). (ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (i.e. road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
EU #13	21) Pursuant to 310 CMR 7.18(8)(h), upon request by MassDEP, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with a method approved by MassDEP and EPA.
EU #14	22) In accordance with the best available control technology provision of 310 CMR 7.02(8)(a)2, both the Fuller-Draco Plenum Pulse 96-6-6000 baghouse and the CAMCORP Model 7BH6x49 pulse-jet bin vent filter shall be equipped with instrumentation to continuously monitor the differential pressure across the respective unit. The Fuller-Draco Plenum Pulse 96-6-6000 baghouse shall also be equipped with instrumentation to continuously monitor the inlet temperature. The pressure and temperature gauges shall be positioned so that they are easily accessed and read. Additionally, audible and visual alarms shall be present to signal the need for corrective action in the event the temperature or pressure are outside the limits of normal operation established by the manufacturer or through compliance testing.
	23) In accordance with Approval No. W-13-009, the Raymond roller mill shall be equipped with a non-resettable hour meter. The non-resettable hour meter on the Raymond roller mill will be sufficient to monitor the number of hours of operation for the mill and the pneumatic conveyor.
	24) In accordance with Approval No. W-13-009, Oldcastle shall monitor the number of hours operated by the Raymond roller mill and the pneumatic conveying system during each month and during the previous 12-month period (the current month and previous 11 months).
	25) In accordance with Approval No. W-13-009, Oldcastle shall perform weekly 30-minute visible emissions inspections using EPA Method 22 (40 CFR Part 60, Appendix A-7) for the Fuller-Draco Plenum Pulse 96-6-6000 baghouse and the CAMCORP Model 7BH6x49 pulse-jet bin vent filter. As an alternative, the 30-minute visible emission inspection may be shortened to 6-minutes if no visible emissions are observed during this inspection period. The Method 22 test shall be conducted while the associated sources are in operation. The test is successful if no visible emissions are observed. If no daylight operation occurs during a week, Oldcastle will not be able to perform a Method 22 test and will so note in the Environmental Logbook. **(1)**

Table 4f

EU#	Monitoring And Testing Requirements
EU #14 (cont'd)	26) In accordance with Approval No. W-13-009, Oldcastle shall perform the following testing on the Fuller-Draco Plenum Pulse 96-6-6000 baghouse at least once per calendar year: a) A visolite leak detection test ("black light and fluorescent powder") test; and b) A visible emission test, which shall be performed in accordance with 40 CFR Part 60, Appendix A, Method 9 by a person certified to perform visible emission testing and while the associated sources are in operation. Additional tests shall be performed as needed to locate leaks, bag failures, or other problems with normal operation of the control devices.
	27) In accordance with Approval No. W-13-009, Oldcastle shall perform the following testing on the CAMCORP Model 7BH6x49 pulse-jet bin vent filter at least once per calendar year: a) A visible emission test, which shall be performed in accordance with 40 CFR Part 60, Appendix A, Method 9 by a person certified to perform visible emission testing and while the associated sources are in operation. Additional tests shall be performed as needed to locate leaks, bag failures, or other problems with normal operation of the control devices.
	28) In accordance with 40 CFR 60.675(a) and (b)(1) Oldcastle shall conduct initial stack testing within 60 days after achieving the maximum production rate at which EU #14 will be operated, but not later than 180 days after initial startup of EU #14, to determine compliance with the Raymond roller mill particulate matter standard contained in Table 3, Emission Limits herein as follows: a) EPA Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.7 dscm (60 dscf). For Method 5 (40 CFR Part 60, Appendix A-3), if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.
	29) In accordance with 40 CFR 60.675(a) and (c)(1) and within 60 days after achieving the maximum production rate at which EU #14 will be operated, but not later than 180 days after initial startup of EU #14, Oldcastle shall determine compliance with fugitive emission limitations specified in Table 3, Emission Limits by using 40 CFR 60: Appendix A, Method 9 and the procedures in §60.11, with the following additions: a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet) b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
	30) In accordance with 40 CFR 60.675(c)(3), the duration of Method 9 (40 CFR Part 60, Appendix A-4) observations must be 30 minutes (five 6-minte averages). Compliance with the applicable fugitive emission limitations herein must be based on the average of five 6-minute averages.
	31) In accordance with 40 CFR 60.675(d), the performance tests conducted to demonstrate compliance with the fugitive emission limit for the building shall be conducted while the Raymond roller mill inside the building is operating.
	32) In accordance with 40 CFR 60.675(i), if the initial performance test date for EU #14 falls during a seasonal shutdown (as defined in 40 CFR 60.671), then with approval from MassDEP, the Permittee may postpone the initial performance test until no later than 60 calendar days after resuming operation of EU #14.

Table 4g

EU#	Monitoring And Testing Requirements
EU #14 (cont'd)	33) In accordance with Table 3 of 40 CFR Part 60, Subpart OOO, a repeat performance test according to 40 CFR 60.11 and 40 CFR 60.675 shall be conducted within 5 years from the previous performance test (as listed in Table 3b, Condition #7 herein) for fugitive emissions.
	34) Pursuant to 310 CMR 7.04(4)(a) and Approval No. W-13-009, the 9.5 MMBtu/hr natural gas-fired flash dryer shall be inspected and maintained in accordance with the manufacturer's recommendations and tested for efficient operation once each calendar year.
Facility-wide	35) In accordance with 310 CMR 7.13(1), any person owning, leasing, operating or controlling a facility for which MassDEP has determined that stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisions shall cause such stack testing to be conducted by a person knowledgeable in stack testing, to be conducted in accordance with procedures contained in a stack test protocol approved by MassDEP, to be conducted in the presence of a representative of MassDEP when such is deemed necessary, and to be summarized and submitted to MassDEP with analysis and report within such time as agreed to in the approved test protocol.
	36) In accordance with 310 CMR 7.13(2), any person having control of a facility, relative to which MassDEP determines that stack testing (to ascertain the mass emission rates of air contaminants emitted under various operating conditions) is necessary for the purposes of regulation, enforcement or determination of compliance shall cooperate with MassDEP to provide: entrance to a location suitable for stack sampling; sampling ports at locations where representative samples may be taken; staging and ladders to support personnel and equipment for performing tests; a suitable power source at the sampling location for the operation of sampling equipment; and such other reasonable facilities as may be requested by MassDEP.
	37) Emissions Compliance Testing (Stack Testing), shall be performed in accordance with 310 CMR 7.13, 310 CMR 7.19(13)(c), and 40 CFR Part 60, Appendix A (Method 7E for oxides of nitrogen (NO_X), Method 6C for sulfur dioxide (SO_2), Method 10 for carbon monoxide (CO), Methods 1 through 5 for Particulate Matter (PM), Methods 201/201A and 202 for $PM_{10}/PM_{2.5}$, Method 3A for oxygen (O_2), Method 9 for opacity, or any other test method approved by MassDEP or EPA). Prior to stack testing, appropriate testing ports shall be constructed so as to accommodate the requirements as stipulated in 40 CFR Part 60, Appendix A.
	38) Oldcastle shall monitor operations such that information may be compiled for the annual preparation of a Source Registration/Emission Statement Form as required by 310 CMR 7.12.
	39) In accordance with 310 CMR 7.71(1) and Appendix C(9) establish and maintain data systems or record keeping practices (e.g. fuel use records, SF6 usage documentation, Continuous Emissions Monitoring System) for greenhouse gas emissions to ensure compliance with the reporting provisions of M.G.L. c. 21N, the Climate Protection and Green Economy Act, St. 2008, c.298,§ 6. (State only requirement).

Table 4 Key:

EU# = Emission Unit Number
% = Percent
DSCF = Dry Standard Cubic Foot
DSCM = Dry Standard Cubic Meter
°C = Degrees Celcius
°F = Degrees Fahrenheit
MMBtu/hr = Million British Thermal Units per Hour
TSP = Total Suspended Particulate Matter
PM_{10} = Particulate Matter less than or equal to 10 microns in diameter
$PM_{2.5}$ = Particulate Matter less than or equal to 2.5 microns in diameter
SF6 =

Table 4 Foot Notes:

(1) Due to the Raymond Mill operation restriction with Western Mass Electric Company (WEMCO), the mill is operated only during off-peak electrical demand hours, often with no daylight operation.

Table 5a

EU#	Record Keeping Requirements
EU #1	1) In accordance with 310 CMR 7.04(4)(a), Oldcastle shall record the results of each annual inspection, maintenance, and testing and the date on which it was performed. Such records shall be maintained onsite.
	2) In accordance with Approval No. 1-E-94-110, Oldcastle shall continuously record the temperature of the kiln using a continuous temperature monitor, recorder, and data logger. In addition, Oldcastle shall keep records regarding the operation and maintenance of the temperature monitoring system, including the dates and times of any periods when the system was inoperable and the reason(s) for such periods.
	3) a. In accordance with Approval No. 1-P-10-026, Oldcastle shall maintain coal certification and coal purchase records at the facility. These records shall be kept on site for five (5) years from date of record and shall be made available to MassDEP upon request. b. In accordance with 310 CMR: Appendix C(10)(b), Oldcastle shall maintain records on site of the sulfur and ash contents of the coal and No. 6 fuel oil burned in EU #1. c. In accordance with 310 CMR, Appendix C(10)(b) and Approval No. 1-P-10-026, Oldcastle shall generate monthly reports in-house that document the amount of coal burned and the sulfur and ash content of the coal burned in EU #1.
	4) In accordance with Approval No. 1-P-96-002, Oldcastle shall establish and continue a recordkeeping system on site. All records shall be kept up-to-date such that year-to-date information is readily available for MassDEP examination. Record keeping shall, at a minimum , include: a. A fuel usage log consisting of purchase records for fuel usage. b. A record of routine maintenance activities including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed. c. A record of all malfunctions including, at a minimum, the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.
	5) In accordance with Approval No. 1-P-94-110, Oldcastle shall keep all EU #1 monitoring records, including records of operation and maintenance, at the facility. Oldcastle shall make such records available for inspection upon request by MassDEP personnel.
	6) In accordance with Approval No. B-81-C-001 and the Approval letter dated 7/16/94, the standard operating and maintenance procedures for EU #1 and the fabric filter shall be maintained on site.
	7) In accordance with 310 CMR 7.32, maintain records as required by the Massachusetts Clean Air Interstate Rule (CAIR).
EU #2	8) In accordance with 310 CMR 7.04(4)(a), Oldcastle shall record the results of each annual inspection, maintenance, and testing and the date on which it was performed. Such records shall be maintained on site.
	9) In accordance with 310 CMR 7.05 and 310 CMR: Appendix C(10)(b), Oldcastle shall maintain records on site of the sulfur content of the fuel oil burned in EU #2.
	10) In accordance with 310 CMR: Appendix C(9)(b), Oldcastle shall keep records of any maintenance or repairs performed on the cyclones and/or fabric filter including, but not limited to, the locations of any broken bags.
	11) In accordance with MassDEP Approval dated August 22, 1972, the standard operating and maintenance procedures shall be maintained on site.

Table 5b

EU#	Record Keeping Requirements
EU #1 and EU#2	12) In accordance with Approval No. 1-B-99-035, Oldcastle shall keep the following records regarding each baghouse: a. daily records of the pressure drop across each baghouse, including the time of day and date of each reading; b. records of any maintenance or repairs performed on the bag houses, including, but not limited to, the replacement of bags; c. records of the locations of any broken bags discovered during baghouse maintenance; d. records of each "black light and powder" test, each Method 9 visible emissions test, and each Method 22 visible emissions test. For each test, the records shall include, but shall not be limited to, the baghouse tested, test method used, date and time of day, identity of the person(s) performing the test, and results.
EU #4	13) In accordance with 310 CMR 7.00: Appendix C(9)(b), Oldcastle shall keep records of any maintenance or repairs performed on the venturi scrubber and/or the fabric filter.
EU #5	14) In accordance with Approval 1-P-07-004, for each Method 9 test performed, Oldcastle shall keep an observation form containing the following information: the name of the observer, observations of opacity, time of day and date the test was performed, estimated wind speed and direction, the sky condition (clear, overcast, etc.) and the position of the sun in relation to the observer. These observation forms shall be retained for at least three years following the date they were recorded.
	15) In accordance with Approval 1-P-07-004, Oldcastle shall maintain records of routine maintenance activities on the equipment including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.
	16) In accordance with Approval 1-P-07-004, Oldcastle shall maintain records of all malfunctions of the equipment contained in this Approval that could result in a change in air emissions, including, at a minimum, the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.
	17) In accordance with Approval 1-P-07-004, Oldcastle shall maintain all records up-to-date such that year-to-date information is readily available for MassDEP examination. Records shall be kept for at least five calendar years.
	18) In accordance with Approval 1-P-07-004, Oldcastle shall submit Method 9 test reports with the Semi-Annual Compliance Certification (See Table 6, Item 12) to MassDEP's Western Regional Office.
EU #6	19) In accordance with 310 CMR 7.00: Appendix C(9)(b), Oldcastle shall keep records of any maintenance or repairs performed on the fabric filter, including but not limited to the locations of any broken bags.
EU #7	20) In accordance with Approval No. 1-P-98-021, Oldcastle shall establish and continue a recordkeeping system on site. All records shall be kept up-to-date such that year-to-date information is readily available for MassDEP examination. Recordkeeping shall, at a minimum, include: a. A record of routine maintenance activities including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed. b. A record of all malfunctions including, at a minimum, the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.

Table 5c	
EU#	**Record Keeping Requirements**
EU #7 (cont'd)	21) In accordance with Approval No. 1-P-98-021, Oldcastle shall maintain a copy of said approval on site.
EU #5, EU #6, and EU #7	22) In accordance with 40 CFR §60.7(b), Oldcastle shall maintain records of the occurrence and duration of any malfunction of the air pollution control equipment.
EU #8	23) In accordance with Approval No. BV-75-IF-001, the standard operating and maintenance procedures shall be maintained on site.
EU #6, EU #7, and EU #8	24) In accordance with CMR 7.00: Appendix C(9)(b), Oldcastle shall keep records of any maintenance or repairs performed on the fabric filter, including but not limited to the locations of any broken bags.
EU # 4, EU #6, EU #7, and EU #8	25) In accordance with 310 CMR 7.00: Appendix C(10)(b), Oldcastle shall keep records of each "black light and fluorescent powder" test and each Method 9 visible emissions test. For each test, the records shall include, but shall not be limited to, the baghouse tested, test method used, date and time of day, identity of the person(s) performing the test, and results.
EU #9	26) In accordance with 310 CMR 7.24(3)(c)3, Oldcastle shall retain, on-site in a centralized location in either hard copy or electronic documents, the following records: a. all of the facility's visual inspection checklists for the prior rolling twelve-month period, identifying: i. the date each inspection was performed and the signature of the person who performed the inspection; ii. any Stage I System component determined to be incorrectly installed, non-functioning or broken; iii. whether the identified incorrectly installed, non-functioning or broken component was immediately repaired, or repaired within 30 days, or if the facility stopped receiving deliveries of motor vehicle fuel; and iv. the date the incorrectly installed, non-functioning or broken component was repaired. b. A copy of compliance testing company test results for compliance tests performed during the prior rolling twelve-month period as required by 310 CMR 7.24(3)(d) in connection with a Stage I Minor Modification or an installation or Stage I Substantial Modification. c. A copy of the Stage I System's most recent In-Use Compliance Certification. d. The date and type of Stage I Routine Maintenance performed in the most recent rolling twelve-month period. e. All records required to be maintained shall be made available to the Department or the US EPA immediately upon request. If requested records cannot be made immediately available, requested records shall be delivered to the Department or the US EPA, as applicable, within 24 hours of the initial request. f. Monthly motor vehicle fuel throughput records by gallon, for the most recent rolling 36-month period, including fuel received and fuel dispensed in gallons.
EU #11 and EU #12	27) In accordance with Approval No. 1-P-05-004, Oldcastle shall keep the following records for the baghouses: a. daily records of the pressure drop across each baghouse, including the time of day and date of each reading; b. records of any maintenance or repairs performed on the baghouses, including, but not limited to, the replacement of bags; c. records of the locations of any broken bags discovered during baghouse maintenance; d. records of each "black light and fluorescent powder" test, each Method 9 visible emissions test, and each Method 22 visible emissions test. For each test, the records shall include, but shall not be limited to, the baghouse tested, test method used, date and time of day, identity of the person(s) performing the test, and results.

Table 5d	
EU#	**Record Keeping Requirements**
EU #11 and EU #12 (cont'd)	28) In accordance with Approval No. 1-P-05-004, Oldcastle shall establish and continue a recordkeeping system for the pelletizing plant on site. All records shall be kept up-to-date such that year-to-date information is readily available for MassDEP examination. Recordkeeping shall, at a minimum, include: a. A record of routine maintenance activities including, at a minimum, a description of the maintenance performed and the date and time the work was completed. b. A record of all malfunctions including, at a minimum, the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.
	29) In accordance with 40 CFR 60.7(7)(b), Oldcastle shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the pelletizing plant and any malfunction of the air pollution equipment.
	30) In accordance with Approval No. 1-P-05-004, Oldcastle shall record the results of the weekly Method 22 emissions tests for each baghouse.
EU #13	31) In accordance with 310 CMR 7.03(6) and 7.18(8), establish and maintain daily record keeping system on-site and in sufficient detail to document the date of construction, substantial reconstruction or alteration and, that the respective emission rates pursuant to 310 CMR 7.03(8) and 7.18(2)(a) are not exceeded. All records shall be maintained up-to-date such that year-to-date information is readily available for MassDEP.
	32) In accordance with 310 CMR 7.18(8)(g), prepare and maintain daily records sufficient to demonstrate compliance consistent with an instantaneous averaging time as stated in 310 CMR 7.18(2)(a). Records kept to demonstrate compliance shall be kept on-site for five years and shall be made available to representatives of MassDEP and EPA upon request. Such records shall include, but are not limited to: a. identity, quantity, formulation and density of solvent(s) used; b. quantity, formulation and density of all waste solvent(s) generated; c. actual operational and performance characteristics of the degreaser and any appurtenant emissions capture and control equipment, if applicable; and d. any other requirements specified by MassDEP in any approval(s) and/or order(s) issued

Table 5e	
EU#	**Record Keeping Requirements**
EU #14	33) The Permittee shall maintain comprehensive records of: a. each Method 22 visible emissions test, each visolite leak detection test ("black light and fluorescent powder") and each Method 9 visible emissions test for the Fuller-Draco Plenum Pulse 96-6-6000 baghouse and the CAMCORP Model 7BH6x49 pulse jet bin vent filter. For each test, the records shall include, but shall not be limited to, the identity of the baghouse or bin vent filter tested, test method used, and date and time of the test, identity of the person(s) performing the test, test results and any corrective actions taken, which shall be kept in a logbook onsite. b. daily records, at a minimum, of the pressure drop across the Fuller-Draco Plenum Pulse 96-6-6000 baghouse and the CAMCORP Model 7BH6x49 pulse-jet bin vent filter, including the time of day and date of each reading. c. daily records, at a minimum, of the inlet temperature to the Fuller-Draco Plenum Pulse 96-6-6000 baghouse, including the time of day and the date of each reading. d. records of any maintenance or repairs performed on the Fuller-Draco Plenum Pulse 96-6-6000 baghouse and the CAMCORP Model 7BH6x49 pulse-jet bin vent filter, including, but not limited to, the number and locations of any damaged filters discovered and replaced. e. the amount of limestone processed by EU #14 during each month and during the previous 12-month period (the current month and previous 11 months). f. the number of hours operated, based on the hour meter, for the Raymond roller mill and the pneumatic conveying system during each month and during the previous 12-month period (the current month and previous 11-months). g. all inspection and maintenance activities.
	34) Persuant to 310 CMR 7.03(26)(e), records documenting any equipment replacement as provided in 310 CMR 7.03(26) and of visible emission observations as required by 310 CMR 7.03(26)(d) shall be maintained on-site in accordance with the provisions of 310 CMR 7.03(6).
	35) The Permittee shall maintain adequate records onsite to demonstrate compliance with all operational, production, and emission limits contained in Table 3 above. Records shall also include the actual emissions of air contaminants(s) emitted for each calendar month and for each consecutive twelve month period (current month plus prior eleven months). These records shall be compiled no later than the 15th day following each month. An electronic version of the MassDEP approved record keeping form, in Microsoft Excel® format, can be downloaded at http://www.mass.gov/dep/air/approvals/aqforms.htm#report
	36) The Permittee shall maintain records of monitoring and testing as required by Table 4..
	37) The Permittee shall maintain a record of routine maintenance activities performed on the approved EU (s) and monitoring equipment. The records shall include, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.
	38) The Permittee shall maintain a record of all malfunctions affecting air contaminant emission rates on the approved EU (s) and monitoring equipment. At a minimum, the records shall include: date and time the malfunction occurred; description of the malfunction; corrective actions taken; the date and time corrective actions were initiated and completed; and the date and time emission rates and monitoring equipment returned to compliant operation.
Facility-wide	39) In accordance with Approval No. 1-E-94-110, Oldcastle shall maintain a fuel usage log at the facility consisting of purchase records for fuel usage.
	40) In accordance with 310 CMR 7.00 Appendix C(10)(b), Oldcastle shall maintain records of all monitoring data and supporting information on-site for a period of at least five years from the date

	of the monitoring sample, measurement, report or initial operating permit application.

Table 5f

EU#	Record Keeping Requirements
Facility-wide (cont'd)	41) In accordance with 310 CMR 7.12(4), upon verification of the information required by 310 CMR 7.12(3), MassDEP will review the supplied information. All such emissions data shall be available to the public during normal working hours at the MassDEP's office and at such other offices as MassDEP may specify. Copies of all information supplied to the MassDEP pursuant to 310 CMR 7.12 shall be retained by the facility owner or operator for five (5) years after the date the report is submitted.
	42) In accordance with Approval No. 1-P-98-020, 1-P-98-021, 1-P-00-058, 1-P-05-004, 1-P-07-004, and W-13-009 Oldcastle shall maintain an Environmental Logbook, or a similar recordkeeping system, which shall document all actions associated with environmental issues and overall emissions changes at the facility. Oldcastle shall record information such as maintenance or corrective actions related to the emission units (Specifically EU#'s 5, 7, 8, 11, 12, and 14); and measures taken to lower overall emissions from the facility. This logbook shall be made available to MassDEP personnel upon request.
	43) The Environmental Logbook shall include the following Emission Unit specific information: 1. (EU #1) In accordance with 310 CMR 7.00 Appendix C(9)(b), Oldcastle shall record, in a logbook, the dates and time periods when the kiln bypass stack was used to bypass the fabric filter. 2. (EU #5) In accordance with Approval No. 1-P-07-004 Oldcastle shall maintain records in the facility environmental logbook, or an equivalent permanent record keeping system, describing the operation of the rock crusher during the period from November 1 through March 31 of each year. The written records shall be maintained for a period of five years following the date of the last entry. The written records shall contain the following information for each day in operation: a. Whether or not the wet particulate suppression system was used; and b. The results of the visible emission observations performed pursuant to items 8.a. and 8.b. of Approval 1-P-07-004, including the name of the observer, the time of day the test was performed, and the test result.
	44) The results of federal, state, or local environmental inspections will be retained in the environmental compliance files.
	45) In accordance with 310 CMR 7.71 (6) b. and c. retain at the facility for five years and make available to MassDEP upon request, copies of the documentation of the methodology and data used to quantify emissions. (State only requirement)

Table 6a	
EU#	**Reporting Requirements**
EU #1	1) In accordance with Approval No. 1-P-10-026, Oldcastle shall notify MassDEP in writing no later than the 15th day of the following month each time the ash content limits are exceeded.
	2) In accordance with 310 CMR 7.32, submit reports as required by the Massachusetts Clean Air Interstate Rule (CAIR).
EU #11 and EU #12	3) In accordance with 40 CFR 60.7, Oldcastle shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner/operator, electronic notification, as follows: a. A notification of the date construction (or reconstruction as defined under §60.15) of the pelletizing plant commenced postmarked no later than 30 days after such date. b. A notification of the actual date of initial startup of the pelletizing plant postmarked within 15 days after such date. c. A notification of the anticipated date for conducting the performance testing and opacity observations required by 40 CFR 60, Subparts A and OOO.
	4) In accordance with Approval No. 1-P-05-004, Oldcastle shall generate monthly reports in-house that document compliance with all of the emission limits specified within Tables 1 and 3 of Approval No. 1-P-05-004.
EU #13	5) In accordance with 310 CMR 7.03(5), report to MassDEP any construction, substantial reconstruction, or alteration of a degreaser described in 310 CMR 7.03 on the next required Source Registration/Emission Statement, in accordance with 310 CMR 7.12.
EU # 14	6) Pursuant to 310 CMR 7.03(26)(f), replacement of any rock processing equipment (i.e. crushers, conveyor systems, screens, dust suppression systems and feeders) shall be reported to MassDEP in accordance with the provisions of 310 CMR 7.03(5).
	7) The Permittee shall notify MassDEP, in writing, the date on which EU #14 commences operation at the facility. This notice shall be provided to MassDEP within (5) days of commencing operation.
	8) The Permittee shall submit to MassDEP for approval a visible emission observation and stack emission pretest protocol, at least 30 days prior to emission testing, for emission testing as defined in Table 4 Monitoring and Testing Requirements.
	9) The Permittee shall submit to MassDEP a notification of the anticipated test date a minimum of 30 days prior to conducting the visible emission observations and stack emission test as required by Table 4 Monitoring and Testing Requirements, Conditions #28 and #29.
	10) The Permittee shall submit to MassDEP, in writing, attention Permit Chief, Bureau of Waste Prevention, a final visible emission observation and stack emission test results report, within 45 days after emission testing, for emission testing as defined in Table 4 Monitoring and Testing Requirements, Condition #28 and #29 herein. This test report shall contain the results of the testing, a description of the test methods and procedures actually used in the performance of the tests, copies of all process data collected during the testing, copies of all raw test data and copies of all calculations generated during data analysis. The results of the testing shall be expressed in units which allow for a direct comparison, and determination of compliance, with the air contaminant emission limitations contained herein.

Table 6b	
EU#	**Reporting Requirements**
Facility-wide	11) Submit a Source Registration/Emission Statement Form to MassDEP on an annual basis as required by 310 CMR 7.12.
	12) In accordance with 310 CMR 7.13(1) and 7.13(2), if determined by MassDEP that stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisos shall cause such stack testing to be summarized and submitted to MassDEP as prescribed in the agreed to pretest protocol.
	13) In accordance with 310 CMR 7.00: Appendix C(10)(c). the Permittee shall report a summary of all monitoring data and related supporting information to MassDEP at least every six months (January 30 and July 30 of each calendar year).
	14) Submit Annual Compliance report to MassDEP and EPA by January 30 of each year and as required by General Condition 10 of this Permit.
	15) In accordance with 310 CMR 7.00 Appendix C(5)(b)9., submit annually a certification that the facility is maintaining the required records to assure the facility is in compliance with the applicable requirements designated in this permit. (See Provision 10 in "GENERAL CONDITIONS FOR OPERATING PERMIT")
	16) In accordance with 310 CMR 7.00 Appendix C(10)(a), submit to MassDEP any record relevant to this operating permit or to the emissions of any air contaminant from the facility within 30 days of the request by MassDEP or EPA.
	17) In accordance with 310 CMR 7.00 Appendix C(10)(f), Oldcastle shall report to MassDEP's Regional Bureau of Waste Prevention all instances of deviations from permit requirements. (See Provision 25 in "GENERAL CONDITIONS FOR OPERATING PERMIT")
	18) In accordance with 310 CMR 7.71(5), by April 15th, 2010 and April 15th of each year thereafter report emissions of greenhouse gases from stationary emissions sources including, but not limited to, emissions from factory stacks, manufacturing processes and vents, fugitive emissions, and other process emissions; and owned or leased motor vehicles when stationary source greenhouse gas emissions are greater than 5,000 short tons CO2e. Report greenhouse gas emissions electronically in a format that can be accommodated by the registry. (State only requirement)
	19) In accordance with 310 CMR 7.71(6), certify greenhouse gas emissions reports using a form provided by MassDEP or the registry. (State only requirement)
	20) In accordance with 310 CMR 7.71(7), by December 31st of the applicable year submit to the Department documentation of triennial verification of the greenhouse gas emissions report. (State only requirement)

C. GENERAL APPLICABLE REQUIREMENTS

The Permittee shall comply with all generally applicable requirements contained in 310 CMR 7.00 et seq. and 310 CMR 8.00 et. seq., when subject.

D. REQUIREMENTS NOT CURRENTLY APPLICABLE

The Permittee is currently not subject to the following requirements:

Table 7

Regulation	Reason
310 CMR 7.27	Superseded by 310 CMR 7.28 and 7.32
310 CMR 7.28	As of January 1, 2009, this regulation is no longer applicable; it was superseded by 310 CMR 7.32.
310 CMR 7.16	Reduction of Single Occupant Commuter Vehicle Use: Facility employs fewer than 250 people.
42 U.S.C. 7401, §112(r)	Prevention of Accidental Releases
40 CFR 64	Compliance Assurance Monitoring Rule

5. SPECIAL TERMS AND CONDITIONS

The Permittee is subject to and shall comply with the following special terms and conditions that are not contained in Table 3, 4, 5, and 6:

Table 8a

Special Terms and Conditions

EU #1 and EU #2	1) In accordance with Approval No. 1-B-99-035, Oldcastle shall maintain the differential pressure gauges installed on the EU #1 and EU #2 baghouses in good working order. In addition, Oldcastle shall regularly clean the static tap lines associated with the differential pressure gauges to prevent clogging.
EU #5	2) In accordance with Approval 1-P-07-004 Oldcastle shall install a containment skirt designed to minimize fugitive dust emissions around the transfer point under the rock crusher.
EU #9	3) In accordance with 40 CFR 63.1116(a), Oldcastle shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: a. Minimize gasoline spills; b. Clean up spills as expeditiously as practicable; c. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; d. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
EU #14	4) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the Raymond roller mill shall not be operated without the simultaneous operation of the Fuller-Draco Plenum Pulse 96-6-6000 baghouse.
	5) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the inlet temperature of the Fuller-Draco Plenum Pulse 96-6-6000 baghouse shall not exceed 250°F during operation.
	6) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the Permittee shall install an interlock that prevents operation of the Raymond roller mill if the Fuller-Draco Plenum Pulse 96-6-6000 baghouse is not in operation.
	7) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the system air used for the Raymond roller mill and the cyclone shall be exhausted to the Fuller-Draco Plenum Pulse 96-6-6000 baghouse.
	8) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the material processed by the Raymond roller mill shall be transferred by a fully enclosed pneumatic conveying system.
	9) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the Raymond roller mill and pneumatic conveying system shall only be operated at the same time.
	10) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the 30" and 155' belt conveyor shall have a full enclosure except for where material enters and exits.
	11) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the pneumatic conveyor shall not be operated without the simultaneous operation of the CAMCORP Model 7BH6x49 pulse-jet bin vent filter.

Table 8b	
Special Terms and Conditions	
EU #14 (cont'd)	12) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the Permittee shall keep on hand a sufficient quantity of spare fabric collector bags for each fabric collector associated with the Raymond roller mill and the pneumatic conveying system in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the Raymond roller mill, pneumatic conveyor system or associated fabric filter collector.
	13) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the drop heights from front end loaders being used to unload bulk limestone into the hopper shall be kept as short as possible to minimize fugitive particulate matter emissions.
	14) In accordance with Approval W-13-009 and the best available control technology provision of 310 CMR 7.02(8)(a)2, the Permittee shall employ all reasonable good housekeeping practices to minimize fugitive particulate emissions from EU #14.
	15) In accordance with Approval W-13-009 if at any time, the plant, or any piece of equipment incorporated in the plant, is determined by MassDEP to be causing the emission of fugitive particulate matter in excess of the limitations specified in any applicable rule or regulation contained in 310 CMR 7.00 or in excess of the level which MassDEP considers to be the minimum attainable though the use of the best available control technology, the Permittee shall, upon notification by MassDEP, immediately take such control measures as are necessary to reduce the air contaminant emissions to within the level deemed acceptable by MassDEP.
	16) In accordance with Approval W-13-009 and Subpart OOO of the federal Standards of Performance for New Stationary Sources for Nonmetallic Mineral Processing Plants, the Raymond roller mill and the 30" x 155' conveyor belt shall comply with the applicable requirements of 40 CFR Parts 60.670 through 60.676.
	17) In accordance with Approval W-13-009 the Permittee shall not construct any additional crushers, screens, conveyors, etc., at the facility without prior MassDEP approval unless said changes are exempt from plan approval in accordance with 310 CMR 7.00.
Facility-wide	18) In accordance with 310 CMR 7.10, Oldcastle shall not cause or allow emissions of sound of sufficient intensity and/or duration so as to cause or contribute to a condition of air pollution. (State enforceable only)
	19) In accordance with 310 CMR 7.09, Oldcastle shall not cause or allow emissions of odor or dust that cause or contribute to a condition of air pollution. (State enforceable only)
	20) In accordance with 310 CMR 7.32, the owner/operator of Oldcastle is subject to and shall comply with the Massachusetts Clean Air Interstate Rule (CAIR), 310 CMR 7.32, and has submitted a CAIR emission control application pursuant to 310 CMR 7.32(3).
	21) The Permittee is subject to, and has stated in their Operating Permit application, TR#X252267, that the Permittee is in compliance with the requirements of 40 CFR 82: Protection of Stratospheric Ozone. These requirements are applicable to this facility and the United States Environmental Protection Agency enforces these requirements.

6. ALTERNATIVE OPERATING SCENARIOS

Table 9

Alternative Operating Scenarios

While operating under an Alternative Operating Scenario (AOS), the Permittee shall comply with all applicable requirements specified in this Permit, including but not limited to, state and federal operational and emission limitations specified in table 3, monitoring and testing requirements specified in table 4, recordkeeping requirements specified in table 5, reporting requirements in table 6 and special terms and conditions contained in table 8. The Permittee shall establish and maintain a log at the facility, which indicates the scenario under which the facility is operating. The Permittee shall record changes from one scenario to another contemporaneously with the change, as provided in 310 CMR 7.00:Appendix C (10)(g).

	Alternative 1: Oldcastle shall be allowed to install and operate a portable stone crusher as necessary in the quarry to remove excess overburden (poor quality stone) to access acceptable quality stone (white) which meets facility product standards. Oldcastle will notify MassDEP at least 30 days in advance of the portable crusher installation and shall include operating information and report air emissions in the facility Source Registration. The temporary portable crusher shall not exceed 8,000 tons per day capacity and will typically be powered by a diesel internal combustion engine. The CI engine is not subject to 40 CFR Part 63, ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines because it is a portable unit. The temporary crusher shall not be operated more than 1000 hours per year. The portable stone crushing plant will be equipped with wet suppression sprays to minimize particulate emissions.

7. EMISSIONS TRADING

A. INTRA-FACILITY EMISSION TRADING

The Permittee did not request intra-facility emissions trading in its Operating Permit application.

B. INTER-FACILITY EMISSION TRADING

The Permittee did not request inter-facility emissions trading in its Operating Permit application.

8. COMPLIANCE SCHEDULE

The Permittee has indicated that the facility is in compliance and shall remain in compliance with the applicable requirements contained in Sections 4 and 5.

In addition, the Permittee shall comply with any applicable requirements that become effective during the Permit term.

GENERAL CONDITIONS FOR OPERATING PERMIT

9. FEES

The Permittee has paid the permit application processing fee and shall pay the annual compliance fee in accordance with the fee schedule pursuant to 310 CMR 4.00.

10. COMPLIANCE CERTIFICATION

All documents submitted to the MassDEP shall contain certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in compliance with 310 CMR 7.01(2) and contain the following language:

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

The "Operating Permit Reporting Kit" contains instructions and the Annual Compliance Report and Certification and the Semi-Annual Monitoring Summary Report and Certification. The "Operating Permit Reporting Kit" is available to the Permittee via the MassDEP's web site, http://www.mass.gov/dep/air/approvals/aqforms.htm#op.

A. Annual Compliance Report and Certification

The Responsible Official shall certify, annually for the calendar year, that the facility is in compliance with the requirements of this Operating Permit. The report shall be postmarked or delivered by January 30 to the MassDEP and to the Regional Administrator, U.S. Environmental Protection Agency - New England Region. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

1) the terms and conditions of the Permit that are the basis of the certification;
2) the current compliance status and whether compliance was continuous or intermittent during the reporting period;
3) the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
4) any additional information required by the MassDEP to determine the compliance status of the source.

B. Semi-Annual Monitoring Summary Report and Certification

The Responsible Official shall certify, semi-annually on the calendar year, that the facility is in compliance with the requirements of this Permit. The report shall be postmarked or delivered by January 30 and July 30 to the MassDEP. The report shall be submitted in compliance with the

submission requirements below.

The compliance certification and report shall describe:

1) the terms and conditions of the Permit that are the basis of the certification;
2) the current compliance status during the reporting period;
3) the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods;
4) whether there were any deviations during the reporting period;
5) if there are any outstanding deviations at the time of reporting, and the Corrective Action Plan to remedy said deviation;
6) whether deviations in the reporting period were previously reported;
7) if there are any outstanding deviations at the time of reporting, the proposed date of return to compliance;
8) if the deviations in the reporting period have returned to compliance and date of such return to compliance; and
9) any additional information required by the MassDEP to determine the compliance status of the source.

11. NONCOMPLIANCE

Any noncompliance with a permit condition constitutes a violation of 310 CMR 7.00: Appendix C and the Clean Air Act, and is grounds for enforcement action, for Permit termination or revocation, or for denial of an Operating Permit renewal application by the MassDEP and/or EPA. Noncompliance may also be grounds for assessment of administrative or civil penalties under M.G.L. c.21A, §16 and 310 CMR 5.00; and civil penalties under M.G.L. c.111, §142A and 142B. This Permit does not relieve the Permittee from the obligation to comply with any other provisions of 310 CMR 7.00 or the Act, or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or Local rules and regulations, not addressed in this Permit.

12. PERMIT SHIELD

A. This facility has a permit shield provided that it operates in compliance with the terms and conditions of this Permit. Compliance with the terms and conditions of this Permit shall be deemed compliance with all applicable requirements specifically identified in Sections 4, 5, 6, and 7, for the emission units as described in the Permittee's application and as identified in this Permit.

Where there is a conflict between the terms and conditions of this Permit and any earlier approval or Permit, the terms and conditions of this Permit control.

B. The MassDEP has determined that the Permittee is not currently subject to the requirements listed in Section 4, Table 7.

C. Nothing in this Permit shall alter or affect the following:

1) the liability of the source for any violation of applicable requirements prior to or at the time of Permit issuance.
2) the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or
3) the ability of EPA to obtain information under 42 U.S.C. §7401, §114 or §303 of the Act.

13. ENFORCEMENT

The following regulations found at 310 CMR 7.02(8)(h) Table 6 for wood fuel, 7.04(9), 7.05(8), 7.09 (odor), 7.10 (noise), 7.18(1)(b), 7.21, 7.22, 7.70 and any condition(s) designated as "state only" are not federally enforceable because they are not required under the Act or under any of its applicable requirements. These regulations and conditions are not enforceable by the EPA. Citizens may seek equitable or declaratory relief to enforce these regulations and conditions pursuant to Massachusetts General Law Chapter 214, Section 7A

All other terms and conditions contained in this Permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the MassDEP, EPA and citizens as defined under the Act.

A Permittee shall not claim as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

14. PERMIT TERM

This Permit shall expire on the date specified on the cover page of this Permit, which shall not be later than the date 5 years after issuance of this Permit.

Permit expiration terminates the Permittee's right to operate the facility's emission units, control equipment or associated equipment covered by this Permit, unless a timely and complete renewal application is submitted at least 6 months before the expiration date.

15. PERMIT RENEWAL

Upon the MassDEP’s receipt of a complete and timely application for renewal, this facility may continue to operate subject to final action by the MassDEP on the renewal application.

In the event the MassDEP has not taken final action on the Operating Permit renewal application prior to this Permit's expiration date, this Permit shall remain in effect until the MassDEP takes final action on the renewal application, provided that a timely and complete renewal application has been submitted in accordance with 310 CMR 7.00: Appendix C(13).

16. REOPENING FOR CAUSE

This Permit may be modified, revoked, reopened, and reissued, or terminated for cause by the MassDEP and/or EPA. The responsible official of the facility may request that the MassDEP terminate the facility's Operating Permit for cause. The MassDEP will reopen and amend this Permit in accordance with the conditions and procedures under 310 CMR 7.00: Appendix C(14).

The filing of a request by the Permittee for an Operating Permit revision, revocation and reissuance, or termination, or a notification of a planned change or anticipated noncompliance does not stay any Operating Permit condition.

17. DUTY TO PROVIDE INFORMATION

Upon the MassDEP's written request, the Permittee shall furnish, within a reasonable time, any information necessary for determining whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the Permittee shall furnish to the MassDEP copies of records that the Permittee is required to retain by this Permit.

18. DUTY TO SUPPLEMENT

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a complete renewal application was submitted but prior to release of a draft permit.

The Permittee shall promptly, on discovery, report to the MassDEP a material error or omission in any records, reports, plans, or other documents previously provided to the MassDEP.

19. TRANSFER OF OWNERSHIP OR OPERATION

This Permit is not transferable by the Permittee unless done in accordance with 310 CMR 7.00: Appendix C(8)(a). A change in ownership or operation control is considered an administrative permit amendment if no other change in the Permit is necessary and provided that a written agreement containing a specific date for transfer of Permit responsibility, coverage and liability between current and new Permittee, has been submitted to the MassDEP.

20. PROPERTY RIGHTS

This Permit does not convey any property rights of any sort, or any exclusive privilege.

21. INSPECTION AND ENTRY

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow authorized representatives of the MassDEP, and EPA to perform the following:

A. enter upon the Permittee's premises where an operating permit source activity is located or emissions-related activity is conducted, or where records must be kept under the conditions of this Permit;

B. have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

C. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and

D. Sample or monitor at reasonable times any substances or parameters for the purpose of assuring compliance with the Operating Permit or applicable requirements as per 310 CMR 7.00 Appendix C(3)(g)(12).

22. PERMIT AVAILABILITY

The Permittee shall have available at the facility, at all times, a copy of the materials listed under 310 CMR 7.00: Appendix C(10)(e) and shall provide a copy of the Operating Permit, including any amendments or attachments thereto, upon request by the MassDEP or EPA.

23. SEVERABILITY CLAUSE

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

24. EMERGENCY CONDITIONS

The Permittee shall be shielded from enforcement action brought for noncompliance with technology based[1] emission limitations specified in this Permit as a result of an emergency[2]. In order to use emergency as an affirmative defense to an action brought for noncompliance, the Permittee shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

A. an emergency occurred and that the Permittee can identify the cause(s) of the emergency;

B. the permitted facility was at the time being properly operated;

C. during the period of the emergency, the Permittee took all reasonable steps as expeditiously as possible, to minimize levels of emissions that exceeded the emissions standards, or other requirements in this Permit; and

D. the Permittee submitted notice of the emergency to the MassDEP within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

If an emergency episode requires immediate notification to the Bureau of Waste Site Cleanup/Emergency Response, immediate notification to the appropriate parties should be made as required by law.

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[1] Technology based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain health based air quality standards.

[2] An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation would require immediate corrective action to restore normal operation, and that causes the source to exceed a technology based limitation under the Permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operations, operator error or decision to keep operating despite knowledge of any of these things.

25. PERMIT DEVIATION

Deviations are instances where any permit condition is violated and not reported as an emergency pursuant to section 24 of this Permit. Reporting a permit deviation is not an affirmative defense for action brought for noncompliance. Any reporting requirements listed in Table 6. of this Operating Permit shall supersede the following deviation reporting requirements, if applicable.

The Permittee shall report to the MassDEP's Regional Bureau of Waste Prevention the following deviations from permit requirements, by telephone, fax or electronic mail (e-mail) , within three (3) days of discovery of such deviation:

A. Unpermitted pollutant releases, excess emissions or opacity exceedances measured directly by CEMS/COMS, by EPA reference methods or by other credible evidence, which are ten percent (10%) or more above the emission limit.

B. Exceedances of parameter limits established by your Operating Permit or other approvals, where the parameter limit is identified by the Permit or approval as surrogate for an emission limit.

C. Exceedances of Permit operational limitations directly correlated to excess emissions.

D. Failure to capture valid emissions or opacity monitoring data or to maintain monitoring equipment as required by statutes, regulations, your Operating Permit, or other approvals.

E. Failure to perform QA/QC measures as required by your Operating Permit or other approvals for instruments that directly monitor compliance.

For all other deviations, three (3) day notification is waived and is satisfied by the documentation required in the subsequent Semi-Annual Monitoring Summary and Certification. Instructions and forms for reporting deviations are found in the MassDEP Bureau of Waste Prevention Air Operating Permit Reporting Kit, which is available to the Permittee via the MassDEP's web site, http://www.mass.gov/dep/air/approvals/aqforms.htm#op .
This report shall include the deviation, including those attributable to upset conditions as defined in the Permit, the probable cause of such deviations, and the corrective actions or preventative measures taken.

Deviations that were reported by telephone, fax or electronic mail (e-mail) within 3 days of discovery, said deviations shall also be submitted in writing via the Operating Permit Deviation Report to the regional Bureau of Waste Prevention within ten (10) days of discovery. For deviations, which do not require 3-day verbal notification, follow-up reporting requirements are satisfied by the documentation required in the aforementioned Semi-Annual Monitoring Summary and Certification.

26. OPERATIONAL FLEXIBILITY

The Permittee is allowed to make changes at the facility consistent with 42 U.S.C. §7401, §502(b)(10) not specifically prohibited by the Permit and in compliance with all applicable requirements provided the Permittee gives the EPA and the MassDEP written notice fifteen days prior to said change; notification is not required for exempt activities listed at 310 CMR 7.00: Appendix C(5)(h) and (i). The notice shall comply with the requirements stated at 310 CMR 7.00: Appendix C(7)(a) and will be appended to the facility's Permit. The permit shield allowed for at 310 CMR 7.00: Appendix C(12) shall not apply to these changes.

27. MODIFICATIONS

A. Administrative Amendments - The Permittee may make changes at the facility which are considered administrative amendments pursuant to 310 CMR 7.00: Appendix C(8)(a)1., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(b).

B. Minor Modifications - The Permittee may make changes at the facility which are considered minor modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)2.,provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(d).

C. Significant Modifications - The Permittee may make changes at the facility which are considered significant modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)3., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(c).

D. No permit revision shall be required, under any approved economic incentives program, marketable permits program, emission trading program and other similar programs or processes, for changes that are provided in this Operating Permit. A revision to the Permit is not required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program under Title IV of the Act, provided that such increases do not require an Operating Permit revision under any other applicable requirement.

28. OZONE DEPLETING SUBSTANCES

This section contains air pollution control requirements that are applicable to this facility, and the United States Environmental Protection Agency enforces these requirements.

A. The Permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

1) All containers containing a class I or class II substance that is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to 40 CFR 82.106.

2) The placement of the required warning statement must comply with the requirements of 40 CFR 82.108.

3) The form of the label bearing the required warning statement must comply with the requirements of 40 CFR 82.110.

4) No person may modify, remove or interfere with the required warning statement except as described in 40 CFR 82.112.

B. The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVAC) in Subpart B:

1) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices of 40 CFR 82.156.

2) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment of 40 CFR 82.158.

3) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

4) Persons disposing of small appliances, MVACs and MVAC-like appliances (as defined in 40 CFR 82.152) must comply with recordkeeping requirements of 40 CFR 82.166.

5) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair equipment requirements of 40 CFR 82.156.

6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

C. If the Permittee manufactures, transforms, imports or exports a class I or class II substance, the Permittee is subject to all the requirements as specified in 40 CFR Part82, Subpart A, "Production and Consumption Controls".

D. If the Permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, "Servicing of Motor Vehicle Air Conditioners". The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo or system used on passenger buses using HCFC-22 refrigerant.

E. The Permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, "Significant New Alternatives Policy Program".

29. PREVENTION OF ACCIDENTAL RELEASES

This section contains air pollution control requirements that are applicable to this facility, and the United States Environmental Protection Agency enforces these requirements.

Your facility is subject to the requirements of the General Duty Clause, under 112(r)(1) of the CAA Amendments of 1990. This clause specifies that owners or operators of stationary sources producing, processing, handling or storing a chemical in any quantity listed in 40 CFR Part 68 or any other extremely hazardous substance have a general duty to identify hazards associated with these substances and to design, operate and maintain a safe facility, in order to prevent releases and to minimize the consequences of accidental releases which may occur.

APPEAL CONDITIONS FOR OPERATING PERMIT

This Permit is an action of the MassDEP. If you are aggrieved by this action, you may request an adjudicatory hearing within 21 days of issuance of this Permit. In addition, any person who participates in any public participation process required by the Federal Clean Air Act, 42 U.S.C. §7401, §502(b)(6) or under 310 CMR 7.00: Appendix C(6), with respect to the MassDEP's final action on operating permits governing air emissions, and who has standing to sue with respect to the matter pursuant to federal constitutional law, may initiate an adjudicatory hearing pursuant to Chapter 30A, and may obtain judicial review, pursuant to Chapter 30A, of a final decision therein.

If an adjudicatory hearing is requested, the facility must continue to comply with all existing federal and state applicable requirements to which the facility is currently subject, until a final decision is issued in the case or the appeal is withdrawn. During this period, the application shield shall remain in effect, and the facility shall not be in violation of the Act for operating without a Permit.

Under 310 CMR 1.01(6)(b), the request must state clearly and concisely the facts which are the grounds for the request, and the relief sought. Additionally, the request must state why the Permit is not consistent with applicable laws and regulations.

The hearing request along with a valid check payable to The Commonwealth of Massachusetts in the amount of one hundred dollars ($100.00) must be mailed to:

The Commonwealth of Massachusetts
Department of Environmental Protection
P.O. Box 4062
Boston, MA 02211

The request will be dismissed if the filing fee is not paid unless the appellant is exempt or granted a waiver as described below.

The filing fee is not required if the appellant is a city or town (or municipal agency) county, or district of the Commonwealth of Massachusetts, or a municipal housing authority.

The MassDEP may waive the adjudicatory hearing filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.